

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M-5

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29979

Author : Smirnova-Garayeva, N.V.

Inst : Krivorozh Pedagogical Institute.

Title : A Contribution to the Problem of Cultivating the White Mulberry Tree for Sericultural Purposes in the Ukrainian SSR.

Orig Pub : Botan. zh., 1957, 42, No 3, 462-463

Abstract : Observations made in 1949-1954 at the Botanical Garden of the Krivorozh Pedagogical Institute make it possible to conclude that in the Ukraine the White mulberry has an annual additional branch growth of 50-80 cm which can provide leaf cuttings with branches to feed the silk worm, beginning with its 4th year. The plants should be cultivated on constantly humid soil (in ditches along the

Card 1/2

- 47 -

SMIRNOVA-IKONNIKOVA, M. I.

Smirnova-Ikonnikova, M. I. "The problem of alkaloids in plant growth," In symposium: Biokhimiya kul't. rasteniy, Vol. VIII, Moscow-Leningrad 1948, p.479-517 - Bibliog: p.515-17

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No.3, 1949)

SMIRNOVA-IKONNIKOVA, M. I.

Smirnova-Ikonnikova, M. I. "Glucosides in plant growth," In symposium:
Biokhimiya kul't. rasteniy, Vol. VIII, Moscow-Leningrad 1948, p. 518-42 - Bibliog:
p. 541-42

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No.3, 1949)

SMIRNOVA-IKONNIKOVA, M.I., kandidat biologicheskikh nauk.; MUKHINA, N.A.

Feed value of bird's-foot trefoil. Dokl. Akad. sel'khoz. 21 no.9:
24-28 '56.
(MLRA 9:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut rastenevodstva.
Predstavлено академиком П.М. Жуковским.
(Bird's-foot trefoil)

M. I. SMIRNOVA-IKONNIKOVA, Yu. V. PERUANSKIY, G. A. LUKOVNIKOVA, V. I. IVANOV,
D. I. LISITSIN, and M. S. BARDINSKAYA.

"On carbohydrates of plant origin."

The Chemistry and Metabolism of Carbohydrates in Animal and Plant Organisms.
Conference in Moscow. January 28 to January 30 1958.

(AM 2552L NO 6, 58)

SOV/20-120-4-44/67

AUTHORS: Smirnova-Ikonnikova, M. I., Veselova, Ye. P.

TITLE: Fermentative Properties of Protein Fractions in the Seeds
of Leguminous Crops (Fermentativnyye svoystva belkovykh
fraktsiy semyan zernovykh bobovykh kul'tur)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 4, pp.849-852
(USSR)

ABSTRACT: According to previous investigations the proteins of these
seeds consist of three protein groups: a water soluble, a salt
solution soluble, and an alkali solution soluble one. The
ratio between the protein fractions within the total protein
complex varies according to the particular biological features
of the sort and species and according to breeding conditions
(Refs 1-5). Apparently these modifications are caused by
particular properties of these proteins, which take an active
part in metabolism. From the evidence obtained in references
6 - 9 it could be assumed that the protein fractions in the
seeds of leguminous plants also possess fermentative proper-
ties. In order to solve this problem the authors investigated

Card 1/3

SOV/20-120-4-44/67

Fermentative Properties of Protein Fractions in the Seeds of Leguminous Crops

the fermentative properties of each protein fraction. They only intended to disclose the catalytic properties of the proteins. For this purpose solutions of the fractions were immediately used, which were produced by means of the adopted method (Ref 5). For purposes of comparison the activity of Sophora japonica, maize, rye, wheat and potato that is to say of catalase, peroxidase, amylase and invertase of proteolytic ferments and of urease were examined. Table 1 shows the proportion of individual protein groups in the seeds, which is not equal everywhere. Table 2 shows the results of the investigation of the fermentative activity of the fractions mentioned initially. Hence, it appears that the investigated fractions contain complexes exhibiting fermentative properties. Among these ferments the activity of catalase, peroxidase and amylase is the most pronounced. The proteolytic activity of all proteins was very weak, the proteins of that water soluble fraction being the most active which contains the maximum number of reactive groups. The proteins of the acid solution soluble fraction are the least active. The water-acid-solution soluble fraction takes up an intermediate position. These proteins apparently possess a particular

Card 2/3

SOV/20-120-4-44/67

Fermentative Properties of Protein Fractions in the Seeds of Leguminous Crops

form of globula, which is lacking a sufficient number of active groups at the surface. Subject to certain conditions, however, they are able to pass over to an active form. Some light is shed on this question by the investigations of V. L. Kretovich and T. I. Smirnova (Ref 9). In monocotyledones the active proteins are concentrated in the embryo, the endosperm being free of ferments. There are 2 tables and 11 references, 11 of which are Soviet.

ASSOCIATION: Vsesoyuznyy institut rasteniyevodstva
(All Union Institute of Plant Breeding)

PRESENTED: October 9, 1957, by A. L. Kursanov, Member, Academy of Sciences, USSR

SUBMITTED: October 8, 1957

1. Protein solutions--Properties 2. Proteins--Metabolism
3. Seeds--Physiology 4. Enzymes--Performance 5. Proteins
...Catalytic properties

Card 3/3

SMIRNOVA-IKONNIKOVA, M.I.; VESELOVA, Ye.P.

Effect of the geographical factor on the protein content and composition
of pulse seeds. Biokhim.zerna no.5:228-247 '60. (MIRA 14:5)

1. Vsesoyuznyy institut rasteniyevodstva, Leningrad.
(Proteins; (Legumes))

MAKHNACH, V.O.; LITVINOV, M.A.; BORISOV, L.B.; MATYKO, N.A.; SMIRNOVA-IKONNIKOVA,
M.I.

Antibacterial properties of starch iodide and its components.
Mikrobiologija .9 no.3:451-454 My-Je '60. (MIRA 13:7)

1. Botanicheskiy institut im. V.L. Komarova AN SSSR, Leningrad.
(STARCH) (IODINE ORGANIC COMPOUNDS) (ANTISEPTICS)

SMIRNOVA-IKONNIKOVA, M.I., IVANOV, N.R., VESELOVA, YE. P. (USSR)

"Effect of Prolonged Storage on the Fractional Composition of the
Proteins, Enzyme Activity and the Germination of Leguminous Seeds.

Report presented at the 5th Int'l. Biochemistry Congress,
Moscow, 10-16 Aug 1961.

SMIRNOVA-IKONNIKOVA, M.I.; PETROVA, T.M.; MOKHNACH, V.O.

Amylose content of starch in seeds of grain and pulse crops. Dokl.
(MIRA 14:9)
AN SSSR 140 no.2:485-488 S '61.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut rasteniyevodstva.
Predstavлено академиком А.И.Опариным.
(Amylose) (Grain) (Legumes)

SMIRNOVA-IKONNIKOVA, M.I., kand. biol. nauk; VESELOVA, Ye.P.

Qualitative composition of the free amino acids of pulse
crop seeds and their partition by means of electridialysis
and paper chromatography. Trudy po prikl. bot., gen. i sel.
(MIRA 19:1)
37 no. 1:89-94 '65

SMIRNOVA-IXONNIKOVA, M.I., kand. biol. nauk; VESSELIOVA, Ye.Z.; PETROVA, T.N.

Accelerated method of quantitative determination of tryptophan
in the grain of corn and pulse crops. Trudy po prikl. bot.,
gen. i sel. 37 no. 1a169-171 '65 (MIRA 1961)

SMIRNOVA-MUTUSHEVA, M.A.; KAGANOVSKAYA, S.N.; LITINSKIY, Yu.I.; MARKUS,
V.D.; SHUL'MAN, E.A.; DOVZHIK, R.M.; FEDOROVA, O.A.

Bacteriological diagnosis of salmonellosis. Lab. dels 8 no.10:
48-49 '62
(MIRA 17:4)

1. Laboratoriya Moskovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii i sanitarno-epidemiologicheskiye stantsii Kalininskogo, Moskvoretskogo i Leninskogo rayonov.

BOGOLEPOVA, Lyudmila Sergeyevna; SMIRNOVA-RAKITINA, Vera Alekseyevna;
GIL'GULIN, M., red.; KLIMOVA, T., tekhn.red.

[Doctor Obukh] Doktor Obukh. Moskva, Gos.izd-vo polit.lit-ry.
1960. 21 p. (MIRA 13:11)
(Obukh, Vladimir Aleksandrovich, 1870-1934)

BOGOLEPOVA, Lyudmila Sergeyevna; SMIRNOVA RAKITINA, Vera Alekseyevna;
STAROSTENKOVA, M.M., red.; NAZAROVA, A.S., tekhn.red.

[Movement for improving sanitary conditions] Dvizhenie za
sanitarnuiu kul'turu. Moskva, Izd-vo "Znanie," 1961. 32 p.
(Vsesoiuznoe obshchestvo po rasprostraneniu politicheskikh i
nauchnykh znanii. Ser.8, Biologiya i meditsina, no.10).
(Sanitation) (MIRA 14:6)

DECEASED

SMIRNOVA-ZAMKOVA, A. I.

c. '63

1964

PHYSIOLOGY

SMIRNOVA-ZAMKOVA, S.Ye.; KORNEV, K.A.

Polyamides with aromatic and heterocyclic links in the chain.
Part 2: Polyamides based on diaminomethyl derivatives of
thiophene, diphenyl ether, diphenylmethane, and biphenyl.
Ukr. khim. zhur. 29 no. 4, 35-439 '63. (MIRA 16:6)

I. Institut khimii polimerov i monomerov AN UkrSSR.
(Polyamides)

SMIRNOVA-ZAMKOVA, S.Ye.; KORNEV, K.A.; CHERNYAVSKAYA, G.A.

Aminomethylation of some derivatives of benzene. Ukr. khim. zhur. 29 no.4:459 '63. (MIRA 16:6)

1. Institut khimii polimerov i monomerov AN UkrSSR.
(Benzene derivatives)
(Aminomethylation)

L 12884-63

EPR/EWP(j)/EPF(c)/EWT(m)/BDS/ES(s)-2 AFFTC/ASD/SSD

Ps-4/Pc-4/Pr-4/Pt-4

RM/WW/JW/MAY

ACCESSION NR: AP3001451

S/0073/63/029/005/0523/0526

81

AUTHOR: Sarzhevskaya, V. P.; Kornev, K. A.; Smirnova-Zamkova, S. E.

80

TITLE: Polyamides having aromatic and heterocyclic groups in the chain. 3. Polyamides based on hexamethylene diamine, n-xylylenediamine and pyridine-2,5-dicarboxylic acid

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 29, no. 5, 1963, 523-526

TOPIC TAGS: polyamides, aromatic groups, heterocyclic groups, hexamethylene diamine, n-xylylenediamine, copolymers, resins interphase condensation method

ABSTRACT: Polyhexamethylene isocinchomeronamide was synthesized from hexamethylene diamine and pyridine-2,5-dicarboxylic acid by the interphase-condensation method described by Smirnova-Zamkova and Kornev (Ukr. khim. Zh., 28, 1962). Poly-n-xylylene isocinchomeronamide was similarly prepared using n-xylylenediamine. Copolymers were synthesized using the dibasic acid and mixtures of the mentioned diamines: an increase of the n-xylylene-diamine raised the fusion temperature and decreased solubility of these thermally stable resins. The best yield and highest molecular weight of these polyamides was obtained on the border of the water-chloroform phase. Changing concentration of the starting materials from 0.03 to 0.12

Card 1/2

L 12884-63

ACCESSION NR: AP3001451

mol/gm did not change the yield or viscosity of the polyamide solutions significantly. Orig. art. has: 3 tables, 1 figure.

ASSOCIATION: Institut khimii polimerov i monomerov, AN UkrSSR (Institute of Polymer and Monomer Chemistry, Academy of Sciences Ukrainian SSR)

SUBMITTED: 28Apr62

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: 00

NO REF SOV: 007

OTHER: 004

Card 2/2

SARZHEVSKAYA, V.P.; KORNEV, K.A.; SMIRNOVA-ZAMKOVA, S.Ye.

Polyamides with aromatic and heterocyclic links in the
chain. Part 8: Polyamides based on some heterocyclic dicar-
boxylic acids and aliphatic diamines. Ukr. khim. zhur. 29
no.10:1076-1078 '63. (MIRA 17:1)

1. Institut khimii polimerov i monomerov AN UkrSSR.

L 63588-65 EPF(c)/ENP(j)/ENA(o)/ENT(m) Po-l/Pr-l RPL RM/OS..

ACCESSION NR: AT5002655

8/0000/64/000/000/0010/0015

25
D+1

AUTHOR: Smirnova-Zamkova, S. Ye.; Kornev, K. A.; Mikhaylova, M. D.

TITLE: Polyamides based on aliphatic-aromatic diamines with methoxy groups in the benzene ring

SOURCE: AN UkrSSR. Institut khimii vysokomolekulyarnykh soyedineniy. Sintez i fiziko-khimiya polimerov; sbornik statey po rezul'tatam nauchno-issledovatel'skikh rabot (Synthesis and physical chemistry of polymers; collection of articles on the results of scientific research work). Kiev, Naukova dumka, 1964, 10-15

TOPIC TAGS: interphase condensation, polyamide synthesis, methoxy group substitution, xylylene diamine, dicarboxylic acid, diamine condensation, polyamide solubility, polyamide thermal stability

ABSTRACT: The authors synthesized 42 new polyamides by interphase (water-benzene) condensation polymerization (of aliphatic or aromatic dicarboxylic acids with o-, m- or p-xylylene diamines containing methoxy substituents in the aromatic ring) to clarify the effect of methoxy groups on the solubility and thermal stability of polyamides. It was shown that the solubility was not increased significantly by the substitution of methoxy for methyl

Cord: 1/3

L 63588-65

6

ACCESSION NR: AT5002655

groups. The melting point dropped sharply when methoxy groups were introduced into the aromatic ring of p-xylylene diamine; for m-xylylene diamine, however, it remained unchanged or even rose somewhat. Orig. art. has: 4 tables.

ASSOCIATION: Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR
(Institute of the Chemistry of High Polymers, AN UkrSSR)

SUBMITTED: 22Jun64

ENCL: 00 SUB CODE: OC,GC

NO REF SOV: 003

OTHER: 004

Card 2/2

SARZHEVSKAYA, V.P.; KORNEV, K.A.; SMIRNOVA-ZAMKOVA, S.Ye.; LEVIN, S.Z.;
KUCHINSKIY, V.N.; GRIZ, V.Ye.

Polyamides with aromatic and heterocyclic links in the chain.
Part 5: Polyamides based on bis-(4-aminocyclohexyl) methane
and some heterocyclic dicarboxylic acids. Ukr. khim. zhur. 30
(MIRA 17:6)
no.1:83-86 '64.

1. Institut khimii polimerov i monomerov AN UkrSSR i Vsesoyuznyy
institut neftekhimicheskikh protsessov.

L 27912-65 EWT(m)/EPA(s)-2/EPF(c)/T/EWP(j)/EPR. Pc-4/Pr-4/Ps-4/Pt-10 WW/RM

ACCESSION NR: AP4011980

S/0073/64/030/001/0107/0111

46

45

B

AUTHOR : Smirnova-Zamkova, S. Ye.

TITLE: Determining thermal stability of polymeric materials

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 1, 1964, 107-111

TOPIC TAGS: polymer stability determination, polymeric material, polymer stability, thermal stability, decomposition, gas evolution, analytical apparatus, volumetric analysis

ABSTRACT: The simple equipment shown in the figure permits following the change in the aggregate structure visually and determining the chemical decomposition of polymers at elevated temperatures. By determining, within a thousandths of a percent, the amount of gas evolved, the method is suitable for studying polymers which fuse without decomposing and have a wide stability range, polymers with a narrow molten stability temperature range and which decompose to a limited extent, or polymers which decompose extensively with or without the formation of a liquid phase. The method may also be used to study the kinetics of gas evolution at a constant temperature, or to study low molecular materials which melt without decomposing

Card: 1/3

L 27912-65
ACCESSION NR: AP4011980

or decompose without melting. Orig. art. has: 1 figure.

ASSOCIATION: Institut khimii polimerov i monomerov AN UkrSSR (Institute of Polymer and Monomer Chemistry, AN UkrSSR)

SUBMITTED: 15Feb63

ENCL: 01

SUB CODE: OC, TD

NR REF Sov: 001

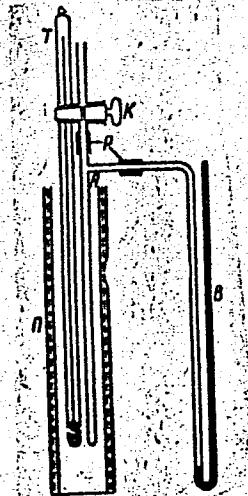
OTHER: 004

Card 2/3

L 27912-65

ACCESSION NR: AP4011980

ENCLOSURE: 01



Apparatus arrangement:

- A - tube with sample
- V - vacuometer
- K - vacuum cock
- P - electric furnace
- T - thermometer

Tube A is attached to Cock K and vacuometer V with the help of joints of vacuum rubber tubes R.

3/3

Card

ACCESSION NR: AP4021980

S/0073/64/030/002/0208/0211

AUTHOR: Smirnova-Zamkova, S. Ya.; Kornev, K. A.; Mikhaylova, M. D.

TITLE: Polyamides with aromatic and heterocyclic rings in the chain.
VI. Polyamides based on cis- and trans-cyclohexane-1, 4-dicarboxylic acids and aliphatic-aromatic diamines.

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 2, 1964, 208-211

TOPIC TAGS: polyamide, aromatic polyamide, alkyl substituted aromatic polyamide, spatial configuration, stereoisomer, stereoisomeric polyamide, solubility, thermal stability, melting point, cyclohexane dicarboxylic acid, heterocyclic polyamide

ABSTRACT: The effect of the spatial configuration of cyclohexane-1, 4-decarboxylic acid stereoisomers on the properties of their derivatives was investigated. Polyamides were prepared by interphase polycondensation of the chloroanhydrides of cis- and trans-cyclohexane-1, 4-dicarboxylic acid with hexamethylenediamine and with the following aliphatic-aromatic diamines: p-xylylenediamine, 2,4-di-(aminomethyl)-toluene, 4,6-di-(aminomethyl)-m-xylene, 4,4'-di-(aminomethyl)-diphenyl ether and 2,5-di-(aminomethyl)-thiophene. The stereoisomeric polyamides

Card 1/2

ACCESSION NR: AP4021981

S/0073/64/030/002/0211/0216

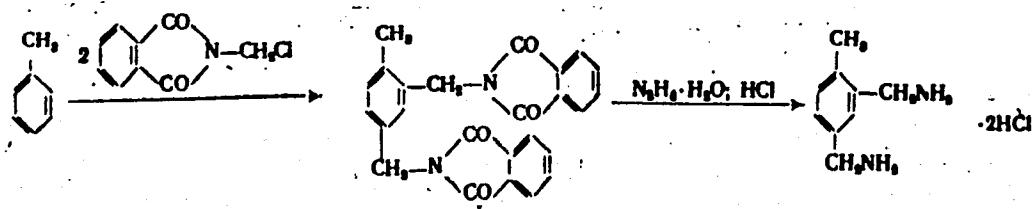
AUTHOR: Smirnova-Zamkova, S. Ye.; Kornev, K.A.; Chernyavskaya, G. A.

TITLE: Polyamides with aromatic and heterocyclic rings in the chain.
VII. Polyamides based on di-(aminomethyl)-toluene and di-(aminomethyl)-xyleneSource: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 2, 1964, 211-216
TOPIC TAGS: polyamide, aromatic polyamide, heterocyclic polyamide, alkyl aromatic polyamide, aminomethylation, diamine synthesis, diamine characterization, melting point, steric hindrance, molecular symmetry, proof of structure, interphase polycondensation

ABSTRACT: Polyamides condensed from the chloranhydrides of certain dicarboxylic acids were characterized. 2,4-di-(aminomethyl)-toluene, 4,5-di-(aminomethyl)-o-xylene, 4,6-di-(aminomethyl)-m-xylene and 2,5-di-(aminomethyl)-p-xylene were synthesized by aminomethylating aromatic compounds:

Card # 1/3

ACCESSION NR: AP4021881



These diamines were characterized by their dibenzoyl derivatives and their dipicrates. Their structure was proven by oxidation to the corresponding acid and identification of the methyl ester. Polyamides were prepared from these diamines by interphase polycondensation with the chloranhydrides of the following dicarboxylic acids: adipic, pimelic, azelaic, sebatic, isophthalic and terephthalic. The melting point of the polyamides depends little on the nature of the acid component. Introduction of the methyl groups into the aromatic diamines of different structure has different effects on the melting point of the polyamides: it lowers

Card'd 2/3

ACCESSION NR: AP4021981

the melting point of p-xylylenediamine and raises that of the m-xylylenediamine. The causes for this are explained on the basis of symmetry and steric hindrance in the molecules. Orig. art. has: 1 figure, 7 tables, 1 equation and 3 formulas.

ASSOCIATION: Institut khimii polimerov i monomerov AN UkrSSR (Institute of Polymers and Monomers Chemistry, AN UkrSSR)

SUBMITTED: 29Mar63

DATE ACQ: 09Apr64

ENCL: 00

SUB CODE: CH

NO. REP. Sov:007

OTHER: 019

Card 3/3

ACCESSION NR: AP4021982

S/0073/64/030/002/0217/0219

AUTHOR: Sarzhevskaya, V. P.; Kornev, K. A.; Smirnova-Zamkova, S. Ye.

TITLE: Polyamides with aromatic and heterocyclic rings in the chain.
VIII. Polyamides based on certain aliphatic-aromatic diamines and pyridine dicarboxylic acid.

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 2, 1964, 217-219

TOPIC TAGS: polyamide, aromatic polyamide, heterocyclic polyamide, interphase polycondensation, melting point, pyridine dicarboxylic diamide, property, solubility, molecular symmetry

ABSTRACT: This is a continuation of a series of works on determining and explaining the properties of polyamides containing heterocyclic groups in the basic chain. Polyamides of pyridine-2,5- and pyridine-2,6-dicarboxylic acids were prepared by interphase polycondensation with 2,5-di-(aminomethyl)-p-xylene (p-XY), 4,6-di-(aminomethyl)-m-xylene (m-XY), 2,5-di-(aminomethyl)-thiophene (TF), p-xylylene-diamine (p-XD), 4,4'-di-(aminomethyl)-diphenylether (DFE), 4,4'-di-(aminomethyl)-diphenylmethane (DFM), 4,4'-di-(aminomethyl)-diphenyl (DIP). The more densely

Card 1/2

ACCESSION NR: AP4021982.

packed symmetrical pyridine-2,5-diamides are higher melting and less soluble . The temperature increase within the series depends on the structure of the diamine component. For the pyridine-2,5- derivatives the temperature increases in the series: p-XY, m-XY, TF, DFM, DFE, DiF (highest melting). This relationship does not hold true for the pyridine-2,6-diamides. Orig. art. has: 2 tables and 1 figure.

ASSOCIATION: Institut khimii polimerov i monomerov AN UkrSSR (Institute of Polymer and Monomer Chemistry AN UkrSSR)

SUBMITTED: 06Apr64

DATE ACQ: 09Apr64

ENCL: 00

SUB CODE: CH

NO. REF Sov: 005

OTHER: 000

Card

2/2

SAR'NEVSKAYA, V.P.; KORCHEV, K.A.; SMIRNOVA-ZAMENVA, S.Ye.

Polyamides with aromatic and heterocyclic links in the chain.
Part 9: Polyamides based on furan-2,5- and thiophene-2,5-dicarboxylic
acids and some aliphatic-aromatic diamines. Ukr.Khim.zhur. 30 no. 1
499-502 '64. (MIRA 18:4)

I. Institut khimii polimerov i monomerov AN UkrSSR.

L 41132-65 EWT(m)/EPF/EWP(j) PC-4/Pr-4
ACCESSION NR: AP4044549

RM S/0073/64/030/008/0855/0859

10
19
B

AUTHOR: Smirnova-Zamkova, S. Ye.; Kornov, K. A.; Burmakov, A. I.;
Shamis, Ye. M.

TITLE Polyamides with aromatic and heterocyclic chains. X. Effect of C-methylation on the properties of aliphatic-aromatic polyamides /5

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 8, 1964, 856-859

TOPIC TAGS: biphenylmethane, amino benzene, methylation, polyamide

ABSTRACT: Physical and chemical data are presented on the synthesis and characteristics of polyamides prepared from mixed aliphatic-aromatic diamines of which methyl groups are in the aliphatic side chain. Such polyamides are of interest because of their high stability and low hygroscopicity. The materials which were used as C-methylated amides were: 1, 4(α -aminoethyl)-benzene, 4, 4'-di-(α -aminoethyl)-biphenyl-methane and 4, 4-di-(α -aminoethyl)-biphenyl. They were synthesized from diacetyl derivatives of corresponding hydrocarbons. Diamines were purified by vacuum distillation. In the production of polyamides,

Card 1/2

L 41132-65

ACCESSION NR: AP4044540

diamines were used in the form of chloride salts, obtained by passing a stream of dry HCl through an alcoholic solution of diamines. Diamine salts crystallize as dihydrates. Chloroanhydrides of dicarboxylic acids were obtained by reaction of thionyl chloride in the presence of dimethylformamide. Polyamides were synthesized by interface polycondensation at the water-organic solvent boundary. It was found that polyamides produced from C-methylated diamines are much more soluble than analogous polyamides without methyl groups. The introduction of methyl groups into the polyamide chain leads to lowering of the melting point for aliphatic dicarboxylic acid polyamides and increase of the melting point for certain polyisophthalamides. Orig. art. has: 2 tables.

ASSOCIATION: Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR
(Chemical Institute of Macromolecular Compounds, Academy of Sciences UkrSSR)

SUBMITTED: 21Jun63

ENCL: 00

SUB CODE: GC

NO REF SOV: 006

OTHER: 001

Cars 2/2

STRUVIYA, Aleksandra Stepanovna

Some observations on mechanism of medical action of water (sokolovogorskogo)
springs.

Dissertation for candidate of a Medical Science degree.
Chair of Microbiology (head prof. S.I. Cherishorina) Saratov Medical
Institute, 1954

SMIRNOVSKAYA, A.S.

Comparative study of the effectiveness of various methods of regeneration of filtrable forms of diphtherial bacteria. Zhur. mikrobiol. epid. i immun. 28 no.2:16-19 F '57 (MLRA 10:4)

1. Iz kafedry mikrobiologii Saratovskogo meditsinskogo instituta.
(CORYNEBACTERIUM DIPHTHERIAE, culture
methods of regeneration of filtrable forms)

SMIRNOVSKAYA, A.S.

Use of water from the Sokolovogorskii spring for suppurative infections. Trudy Sar. gos. med. inst. 26:33-38 '59.
(MIRA 14:2)

i. Saratovskiy meditsinskiy institut, kafedra mikrobiologii
(zav. prof. S.I. Sherishorina).
(SARATOV--MINERAL WATERS)

SMIRNOVSKAYA, A.S.

Some observations on the mechanism of the therapeutic action in the external use of water from the Sokolov Mountain Spring. Vop. kur., fizioter. i lech. fiz. kul't. 25 no.4:339-342 Jl-Ag '60.

(MIRA 13:9)

1. Iz kafedry mikrobiologii (zav. - prof. S.I.Sherishorina) Saratovskogo meditsinskogo instituta.
(SARATOV--MINERAL WATERS)

TEREKHOV, I.N., kand.tekhn.nauk, dotsent, kapitan 1 ranga; SMIRNOVSKIY,
A.F., inzh.-kapitan, red.; MERKIN, D.B., kand.fiz.-matem.nauk,
starshiy nauchnyy sotrudnik, red.; SHMAKOV, N.A., kapitan-
leytenant, red.; BERDNIKOVA, Ye.B., tekhn.red.

[Brief course in radio deviation] Kratkii kurs radiodeviatsii.
Moskva, Voen.izd-vo M-va vooruzhennykh sil SSSR, 1947. 85 p.
(MIRA 14:1)

1. NIGShI voyenno-morskikh sil (for Terekhov).
(Radio in navigation)

SMIRNOVSKIY, B. N.

Smirnovskiy, B. N. - "Biology of poisonous snakes of the family Viperidae in Kazakhstan," Trudy Alma-AT. vet.-zootekhn. in-ta, Vol. V, 1948, p. 349-57

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

SMIRNOVSKIY, B.N., kand.biol.nauk

Pasture feeding of animals in connection with seasonal living
habits of poisonous snakes. Trudy AZVI 10:158-163 '57.
(MIRA 12:8)

1. Iz kafedry zoologii (zav.kafedroy - dots. B.N.Smirnovskiy)
Alma-Atinskogo zoovetinstituta.
(Kazakhstan--Pastures and meadows) (Venom--Physiological effect)

SMIRNOVSKIY, B.N., kand.biol.nauk

Poisonous snakes of Kazakhstan and their significance as pests
in stock raising. Trudy AZVI 10:520-523 '57. (MIRA 12:8)

1. Iz kafedry zoologii (zav.kafedroy - kand.biol.nauk B.N.
Smirnovskiy) Alma-Atinskogo zoovetinstituta.
(Kazakhstan--Venom) (Stock and stockbreeding)

SMIRNOVSKIY, B. N.

Doc Biol Sci - (diss) "Poison snakes of Kazakhstan and their significance as pests in animal husbandry." Alma-Ata, 1961. 16 pp; (Ministry of Higher and Secondary Specialist Education Kazakh SSR, Alma-Ata Zooveterinary Inst); 210 copies; price not given; (KL, 6-61 sup, 205)

ZABLOTNY, Wladyslaw; SMIRNOW, Mikolaj I. [Smirnov, Nikolay I.]

Dehydrogenation of normal alcohols. Przem chem 41 no.7:386-
388 Jl '62.

1. Katedra Syntezy Organicznej i Kauczukow Syntetycznych, Instytut
Technologiczny, Leningrad.

SMIRNYAGIN, L.V.

Principles of the geographical distribution of disseminated
metal production. Geog. i khoz. no.9:27-33 '61. (MIRA 14:11)
(Metal, Rare and minor)

ANTONOVA, I.F.; SMIRNYAGIN, L.V.

Some factors in the location of the mining industry in Canada.
Vest. Mosk. un. Ser. 5: Geog. 16 no. 3:14-21 My-Je '61.
(MIRA 14:5)

1. Kafedra ekonomicheskoy i politicheskoy geografii kapitalisticheskikh stran, Moskovskiy Gosudarstvennyy universitet i Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii AN SSSR.
(Canada--Mineral industries)

marketing the products of agriculture. Last year, a bill was introduced in the House of Representatives to do this. (H.R. 1447)

1. "Zvezdnykh kreyserov" (i.e., *Accidentals*) (see below). 2. "Krasnyy Regg" (Red Regg) (i.e., *Red Rebels*) (see below). 3. "Gnevnyy Krest" (i.e., *Angry Cross*) (see below). 4. "Gnevnyy Krestyana" (i.e., *Angry Peasant*). 5. "Gnevnyy Krestyana" (i.e., *Angry Peasant*).

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2"

VAFINA, N., master muzhskogo verkhnego plat'ya; NOVRUZOV, M.;
CHEREPNINA, M.; ZANTEBERG, L. (Kiiev); YEGOROV, Yu. (Pererva);
FEDOSENKO, A. (Minsk); LYUTSKO, A.; SMIRNYAGIN, V., instruktor;
NIKOLAYEV, I.; KHARIK, G.

Our labor gifts to the congress of the builders of communism.
West.prom.i khud.promys, 2 no.10:2-5 0 '61. (MIRA 14:11)

1. Shveyyny kombinat, g. Ivanova (for Vafina). 2. Sekretar' partbyuro kombinata nadomnogo truda, Baku (for Novruzov).
 3. Sekretar' obkoma profsoyuza rabcchikh mestnoy promyshlennosti i komunal'nogo khozyaystva, Rostov-na-Donu (for Cherepnina).
 4. Glavnnyy inzhener raypromkombinata, g. Slomim Belorusskoy SSR (for Lyutsko). 5. Respublikanskiy komitet profsoyuza rabochikh mestnoy promyshlennosti i komunal'nogo khozyaystva, Kishinev (for Smirnyagin). 6. Sekretar' oblastnogo komiteta profscyuza rabochikh mestnoy promyshlennosti i komunal'nogo khozyaystva, Pskov (for Nikolayev). 7. Nachal'nik otdela truda i zarplaty Ministerstva mestnogo khozyaystva Estonskoy SSR, Tallin (for Kharak).

(Efficiency, Industrial)

SMIRNYAGIN, V.

Effective organ. Zhil.-komm. khoz. 12 no. 9:13-14 S '62. (MIRA 16:2)

1. Vneshtatnyy instruktor respublikanskogo komiteta professional'nogo
soyuza rabochikh mestnoy promyshlennosti i kommunal'nogo khozyaystva,
g. Kishinev. (Labor inspection)

Smirnyagin, V. A.

5-3400

770-8
SCV/79-30-2-13/78

AUTHORS:

Nazarov, I. N., Makin, S. M., Shavrycina, O. A.;
Smirnyagin, V. A.

TITLE:

Synthesis of Higher Fatty Acids and Alcohols From
Tertiary Vinylcarbinols

PERIODICALS:

Zhurnal obshchey khimii, 1960, Vol 30, No 2, pp
493-500 (USSR)

ABSTRACT:

The higher unsaturated acids were synthesized using acetoacetic and malonic esters. Diesters (III, R = $\text{CH}_2\text{R}'-\text{OC}_2\text{H}_5$), (XII), (XXII) and (XXX) were obtained by reacting sodium derivatives of malonic or acetoacetic esters with the respective bromides (see schemes 1 and 2 for designations and for synthetic routes).

Card 1/7

ASSOCIATION: Moscow Institute of Fine Chemical Technology (Moskovskiy
Institut tonkoy khimicheskoy tekhnologii)

SUBMITTED: February 4, 1959

Card 7/7

SMIRNYAGIN, Yu.V., inzh.

Truss with a flexible thread for the roofs of large-span industrial buildings. Trudy NII prom. zdan. i soor. no.2:26-30 '61.
(MIRA 15:6)

(Trusses) (Industrial buildings)

LABZENKO, V.I., kand. tekhn. nauk; SMIRNYAGIN, Yu.V., inzh.

The expediency of using rolled high-strength steel in steel
structural elements. Trudy NII prom. zdan. i soor. no.2:31-35
'61. (MIRA 15:6)

(Steel, Structural)

LABZENKO, V.I., dotsent, kand.tekhn.nauk; SMIRNYAGIN, Yu.V., inzh.

Economic effectiveness of using rolled metal made of high-strength steels in steel structural elements. Tsel'ny Ural.
politekh. inst. no.110:57-67 '61. (MIRA 14:7)
(Steel, Structural)

LABZENKO, V.I., kand. tekhn. nauk; SMIRNYAGIN, Yu.V., inzh.; VOLODARSKIY, B.Ya., inzh.; FLOROV, R.S., kand. tekhn.nauk; SPERANSKIY, B.A., kand. tekhn.nauk; SHAVSHUKOVA, G.N., inzh.; OL'KOV, Ya.I., inzh.; TAMPLON, F.F., inzh.; SUKHANOV, V.P., inzh.; TIMASHEV, S.A., inzh.; BOLOTINA, A.V., red.izd-va; KOROBKOVA, N.I., tekhn. red.

[Progressive metal elements for industrial construction] Progres-sivnye metallicheskie konstruktsii dlia promyshlennogo stroitel'-stva. [By] V.I.Labzenko i dr. Pod red. V.I.Labzenko i R.S.Florova. Moskva, Gosstroizdat, 1963. 183 p. (MIRA 16:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut po stroitel'stvu, Sverdlovsk.
(Steel, Structural) (Aluminum alloys)

SHIRNYAGINA, A.

23433 sveklokombayn sog-1 [k prisvazdeniyu stalinskoy premii m. s. sivachenko,
v. d. pavlovu i s. a. gerasimovu]. ill. s. pivovarev. tekhnika - molodezhi,
1949, No. 7, c. 10-11.

so: LETOPIS NO. 31, 1949

SMIRNYAGINA, A.

36658. Smirnyagina, A. Biskavator E-505. Ill. A. Reysk. Tekhnika molodezhi,
1949, No. 11, c. 15-17

SO: Letopis' Zhurnal'ynikh Statey, Vol. 50, Moskva, 1949

SHIRNYAGINA, A.

Building Machinery

Underground boat. Znan. Sila no. 3:33-36 Mr '52

2

9. Monthly List of Russian Accessions, Library of Congress, July 1951. Unclassified.

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2

SMIRNYAGINA, A.

Machinery

Universal instrument., Mol. kolkh., 19, no. 8, 1952

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2"

1. SMIRNYAGINA, A.
2. USSR (600)
4. Cotton-Picking Machinery
7. Pneumatic cotton-picking machine.
Tekh. molod. 20 no. 9, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

1. SMIRNYAGINA, A.
2. USSR (600)
4. Stonecutters
7. Self-sharpening blades for marble cutters.
Tekh. molod. 20 No. 12, 1952

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

1. A. SMIRNOVINA
2. USSR (600)
4. Ash (Technology)
7. Impervious ash. Znan. sila 22 no. 12. 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2

SMIRNYAGINA, A.

Welding apparatus. ~~Yekh.~~ molod. 21 no. 6:29 Je '53.

(MLRA 6:6)
(Welding)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2"

SMIRNYAGINA, A.

Checkrowing potato planter. Tekh.molod. 21 no.7:38 Jl '53. (MLRA 6:8)
(Agricultural machinery)

SMIRNYAGINA, A.

Machinery of the fields. Tekh.molod. 21 no.8:5-8 Ag '53. (MLRA 6:7)
(Agricultural machinery)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2

SMIRNYAGINA, A.

Bread. Tekh.molod. 21 no.9:7-10 8 '53.

(MIRA 6:11)
(Bread),

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2"

SMIRNYAGINA, A.

Meat combine. Tekh.molod. 21 no.11:25-30 N '53.

(MLRA 6:11)
(Meat industry)

SMIRNYAGINA, A.

4674. Mashiny L'na I Konopli. M Goskul'tposvetizdat. 1954. 48 S 22Sm. (Vsesoyuz.
S. Kh. Vystavka) 15:00 Ekz. 50K. --Na Obl. Avt. Ne ukazan. -- (55-438) D. 633.52:631.3
#677.1.051.

SMIRNYAGINA, A.

Hemp. Tekh.mol. 22 no.12:28-29 D '54.
(Hemp)

(MLRA 8:1)

SMIRNYAGINA, A.

Butter conveyer. Tekh. mol. 23 no.6:30-32 Je '55. (MIRA 8:9)
(Butter)

SMIRNYAGINA, A.

Visiting a watch-making factory. IUn.tekh.no.1:57-62 S '56.
(MLRA 10:3)
(Clockmaking and watchmaking)

SMIRNYAGINA, A.

A liquid "piston," a fluid which stops the flow of metals. Tekh.mol.
24 no.3:9-12 Mr '56. (MLRA 9:7)
(Hydraulic presses)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2

SMIRNYAGINA, A.

Metals change their shape. IUn.tekh.no.2:52-57 F '57.
(Metalwork) (MLRA 10:3)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2"

SMIRNYAGINA, A.

Everyone works here. IUn.tekh. no.7:66-70 Je '57. (MLRA 10:7)
(Moscow--Boarding schools)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2

SMIRNYAGINA, A.

Restless hearts. Tekh.mol.25 no.1:11-12 Ja '57.
(Technology)

(MLRA 10:2)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2"

SMIRNYAGINA, A.

Great problem of the small lot production of machine parts. Tekh. mol.
25 no. 5:5-6, 39 My '57. (MLRA 10:6)
(Machinery industry)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2

SMIRNYAGINA, A.

Two-stage harvesting. IUn. tekhn. 2 no.9:76-77 S '57. (MLRA 10:9)
(Harvesting)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2"

SMIRYAGINA, A.

30(1)

AUTHOR:

Smiryagina, A.

SOV/29-58-11-7/28

TITLE:

Winter Sowing (Sev zimoy)

PERIODICAL: Tekhnika molodezhi, 1958, Nr 11, pp. 8-10 (USSR)

ABSTRACT:

In this scientific article intended for the lay public the author reports on a revolutionary change in agriculture introduced by two Soviet specialists, Sergey Vasil'yevich Krylov, Candidate of Agricultural Sciences, and Nikolay Manuilovich Vol'f, Construction Engineer. For the past four years they have sown in hard-frozen soil. Their test lots, on which different kinds of plants were grown, were originally at the vegetable experimental farm of the Akademiya imeni Timiryazeva (Academy imeni Timiryazev) which is headed by V.I. Edel'shteyn, Member, Academy of Sciences, USSR. Today, they are working with large fields of the "Gorkiy II" kolkhoz near Moscow. The results of this unusual sowing practice surpassed all expectations. The following reasoning has led to the development of this practice: It is well known that seed sown in fall is much more resistant and yields much more than seed sown in spring. Still, there are a few disadvantages to be reckoned with: Over continued warmer periods the seed be-

Card 1/3

SOV/29-58-11-7/28

Winter Sowing

gins to sprout prematurely and is then damaged by frost. Therefore it was necessary to choose the right moment for sowing. It appeared to be best to sow after the frost had begun. So, the seed was in a position to winter under natural conditions and thus to get hardened against winter temperatures. In frozen soil it is impossible that the seeds should sprout prematurely. On the other hand, modern technology permits the working of hard soil. The plowshare designed by the two pioneers (a figure is given) has proven satisfactory and permits sowing in soil covered with snow. It is the special advantage of this new method that it makes the winter seeds come up fast and uniformly. It also makes use of the entire moisture of the soil available in spring and keeps the soil from drying up too soon. At the time of drought the roots are already long enough to penetrate into deep-lying layers which still retain moisture. The seed comes up uniformly, and thus weeds are overshadowed and cannot smother the seed. The plants grow so fast that there is a discrepancy between the stages of development of the plants and pests, so the latter can no longer hurt the seedlings. It has also been observed that the seeds obtained from winter sowings develop new properties. Even when sowed in spring they come up sooner than normal.

Card 2/3

Winter Sowing

SOV/29-58-11-7/28

seeds sowed at the same time, and their yield is 20 to 30 per cent higher. Since the sowing may already start in winter, working times change, and sowing and harvest times are stretched over longer periods, even over the entire year, so that agriculture loses its seasonal character. The work of the farm worker is made much easier, and production is increased. There are 5 figures.

Card 3/3

SMIRNYAGINA, O. [Smyrniahina, O.]

Now we see the invisible. Znan. ta pratsia no.3:9 Mr '59.
(MIRA 12:10)
(Photography, High-speed)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2

SMIRNYAGINA, A.

Television dispatcher. IUn. tekhn. 4 no.9:4-5 S '59.
(MIRA 12:12)

(Industrial television)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2"

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2

SMIRNYAGINA, A.

In the pavilion "Young naturalists and technicians." IUn. tekhn.
4 no.9:50-59 S '59. (MIRA 12:12)
(Moscow--Exhibitions)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2"

SMIRNYAGINA, A.

Hoisting trunk. IUn. tekh. 4 no.10:21 0 '59. (MIRA 13:1)
(Hoisting machinery)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2

SMIRNYAGINA, A.

Three-layer plowing. IUn.tekh. 4 no.11:46-47 N 159.
(MIRA 13:4)

(Plowing)

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CIA-RDP86-00513R001651710008-2"

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2

SMIRNYAGINA, A.

Mechanical cleaners. IUn.tekh. 5 no.9:20-21 S '60. (MIRA 13:10)
(Street-cleaning machinery)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2"

SMIRNYAGINA, A.

Continuing our talk. Tekh.mol. 28 no.1:4 '60. (MIRA 13:5)
(Agricultural machinery)

SMIRNYAGINA, A.

Baler saves wire. Tekh. mol. 28 no. 3:8 '60. (MIRA 14:4)
(Hay--Harvesting) (Agricultural machinery)

KATRENKO, Dmitriy Alekseyevich; SMIRNYAGINA, Aleksandra Andreyevna;
KNUNYANTS, I.L., akademik, nauchnyy red.; KORNILOVA, M.I.,
red.; SHIKIN, S.T., tekhn. red.

[Science outstrips fancy] Nauka, obgoniaiushchaia mechtu. Mo-
skva, Izd-vo VTsSPS Profizdat, 1961. 204 p. (MIRA 15:1)
(Synthetic products)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2

SMIRNYAGINA, A.

New life of an old culture. IUn.tekh. 5 no.6:46-48 Je '(1.
(MIRA 14:9)

(Agricultural machinery)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2"

SMIRNYAGINA, A.

New machinery for workers on farms. IUn.tekh. 5 no.8:14-17 Ag
'61. (MIRA 14:12)

(Agricultural machinery)

SMIRNYAGINA, A.

Ukraine exhibits. Nauka i zhizn' 28 no.7:27-29 Jl '61.
(MIRA 14:8)
(Ukraine—Technological innovations)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710008-2

SMIRNYAGINA, A.

Without idle running. Nauka i zhizn' 28 no.8:20-21 Ag '61.
(MIRA 14:8)
(Agricultural machinery)

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CIA-RDP86-00513R001651710008-2"

SMIRNYAGINA, A.

In the auditoriums of people's university. Nauka i zhizn' 28
(MIRA 14:12)
no.9:32-33 S '61.
(Technological innovations)

SMIRNYAGINA, A.

At the exhibition of engines. Nauka i zhizn' 28 no.10:97 0 '61.
(MIRA 15:1)
(Moscow--Exhibitions) (Motor vehicles--Engines)

SMIRNYAGINA, A.

Young technicians. Nauka i zhizn' 28 no.11:99-101 N '61.
(MIRA 14:12)
(Engineering models)

SMIRNYAGINA, A.

New machinery in the fields. Tekh.mol. 29 no.4:17 Ap '61.
(MIRA 14:5)
(Agricultural machinery)